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DATE MAILED: 05/17/2004

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/631,067	08/01/2000	Hajime Kimura	SEL 201	6613
7590 05/17/2004			EXAMINER	
	McFarron Manzo & Mehler LTD		ZEADE, BE	RTRAND
Suite 2850			ART UNIT	PAPER NUMBER
200 West Ac Chicago, IL			2875	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	09/631,067	KIMURA, HAJIME	
Office Action Summary	Examiner	Art Unit	
The MAILING DATE of the	Bertrand Zeade	2875	my
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	ne correspondenc address	*.
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailling date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be sply within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS f	e timely filed days will be considered timely. rom the mailing date of this communication	on.
Status Status			
1) Responsive to communication(s) filed on <u>01</u>	March 2004		* .
	This action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice unde	vance except for formal matters or <i>Ex part</i> e Quayle, 1935 C.D. 11	prosecution as to the ments , 453 O.G. 213.	is
Disposition of Claims			
4)⊠ Claim(s) <u>1-27</u> is/are pending in the application	on.		
4a) Of the above claim(s) is/are withdra			
5) Claim(s) 2,5-7,10-11,14-17,19-22 and 24-27	is/are allowed.		
6)⊠ Claim(s) <u>1,3,4,8,9,12,13 and 23</u> is/are rejecte			
7) Claim(s) is/are objected to.			·
8) Claim(s) are subject to restriction and/	or election requirement		
Application Papers			
9)☐ The specification is objected to by the Examine	er.		
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		raminor	
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance	See 37 CER 1.85(a)	•
11) The proposed drawing correction filed on	_ is: a)☐ approved b)☐ disapp	roved by the Examiner	•
If approved, corrected drawings are required in re	eply to this Office action.	TO OG DY (TIC EXAMINIE)	*
12) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. & 119	(a)-(d) or (f)	
a) ☐ All b) ☐ Some * c) ☐ None of:		(4) (4)	
1. Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority document		tion No	
Copies of the certified copies of the prio application from the International Bu See the attached detailed Office action for a list	rity documents have been receivered (PCT Rule 17.2(2))	ved in this National Stage	
14) Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119	(e) (to a provisional application	nn)
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti	visional application has been re	ceived	,,,,.
Attachment(s)	, 22 2 3.0.0.33 12	- and or (21,	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 05	5\ Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)	
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office Ac	tion Summary	Part of Paper No. 0506	

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed 03/01/2004 have been fully considered but they are not persuasive.
- 2. Applicants contend that Besson does not disclose or suggest the claimed limitation of "a plurality of prism-shaped lenses each being contact with a lower surface of the light guide plate.
- 3. In response to Applicant as shown in (fig. 12), light (4) is not next to the light guide plate (110), but the cooperation of the light with the light guide is not set forth. Therefore, any transparent plate which cooperates with the prism "90" can be considered a light guide plate.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,3-4,8-9,12-13 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Beeson et al (U.S.5396350).

Beeson ('350) discloses a backlighting apparatus employing an array of micro prisms having:

Regarding claim 1, as shown in (figs. 7-12) a light source (4), light guide plate (110), and a plurality of prism-shaped lenses (90) each being contact with a lower

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110

surface of the light guide (6), wherein a cross-section of each of the prism-shaped lenses (90), in a plane perpendicular to the side surfaces thereof, has a shape of equally-sided trapezoid, a plane defined by an upper base (92) of the equally-sided trapezoidal cross-section of each of the prism-shaped lenses (90) comes into contact with the lower surface of the light guide plate (6), and a obtuse angle or tilted angle (col. 17, lines 42-48) of the equally-sided trapezoidal cross-section and a critical angle for the total reflection of the prism-shaped lenses satisfy the relationship of 90 degrees<0>90 degrees +0 (col. 8, lines 16-31).

Regarding claim 3, a refractive index of each of the prism-shaped lenses (80/28) is equal to that of the light guide plate (col. 5, lines 43-68).

Regarding claim 4, each of the prism-shaped lenses (90/28) is made of the same material as the light guide plate (col. 5, lines 43-68).

Regarding claim 8, as shown in (figs. 7-12) a light source (4), light guide plate (6/110), and a plurality of prism-shaped lenses (90) each being contact with a lower surface of the light guide (6), wherein a cross-section of each of the prism-shaped lenses (90), in a plane perpendicular to the side surfaces thereof, has a shape of equally-sided trapezoid, a plane defined by an upper base (92) of the equally-sided trapezoidal cross-section of each of the prism-shaped lenses (90) comes into contact with the lower surface of the light guide plate (6), and a obtuse angle or tilted angle (col. 17, lines 42-48) of the equally-sided trapezoidal cross-section and a critical angle for the total reflection of the prism-shaped lenses satisfy the relationship of 90 degrees<0>90 degrees +0 (col. 8, lines 16-31).

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Regarding claim 9, as shown in (figs. 7-12) a light source (4), light guide plate (6/82), and a plurality of prism-shaped lenses (90/28) each being contact with a lower surface of the light guide (6/82), wherein a cross-section of each of the prism-shaped lenses (90), in a plane perpendicular to the side surfaces thereof, has a shape of equally-sided trapezoid, a plane defined by an upper base (92) of the equally-sided trapezoidal cross-section of each of the prism-shaped lenses (90/28) comes into contact with the lower surface of the light guide plate (6/28); and a obtuse angle or tilted angle (col. 17, lines 42-48) of the equally-sided trapezoidal cross-section and a critical angle for the total reflection of the prism-shaped lenses satisfy the relationship of 90 degrees<0>90 degrees +0 (col. 8, lines 16-31).

Regarding claim 12, a refractive index of each of the prism-shaped lenses (80/28) is equal to that of the light guide plate (col. 5, lines 43-68).

Regarding claim 13, each of the prism-shaped lenses (80/28) is made of the same material as the light guide plate (col. 5, lines 43-68).

Regarding claim 23, the prism-shaped lenses (90) is made of the same material as the light guide plate (6).

Allowable Subject Matter

- 3. Claims 2,5,6-7,10-11,14-17,19-20-22,24-27 are allowed.
- 4. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record neither teaches nor suggest that in the axially-symmetric figure, an angle defined between a normal at a certain point on one of the opposing curved lines and a straight line connecting a crossing point between the opposing curved line and the shorter one in the pair of opposing parallel straight lines to the certain point, is in the range of +3 degrees from a critical angle for the total reflection of each of the prism-shape lenses.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bertrand Zeade whose telephone number is 571-272-2387. The examiner can normally be reached on 9:30 AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on 571-272-2378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bertrand Zeade Examiner Art Unit 2875

Stephen Husar Primary Examiner